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- <400> 3 atgcccatgg ggtctctgca accgctggcc accttgtacc tgctggggat gctggtcgct 60 120 tcctqcctcq qaaactqqqt gaatgtaata agtgatttga aaaaaattga agatcttatt 180 caatctatgc atattgatgc tactttatat acggaaagtg atgttcaccc cagttgcaaa 240 gtaacagcaa tgaagtgctt tctcttggag ttacaagtta tttcacttga gtccggagat gcaagtattc atgatacagt agaaaatctg atcatcctag caaacaacag tttgtcttct 300 aatgggaatg taacagaatc tggatgcaaa gaatgtgagg aactggagga aaaaaatatt 360 420 aaagaatttt tggacagttt tgtacatatt gtcgacatgt tcatcaacac ttcggatccc 480 aaatctgctg acaaaactca cacatgccca ccgtgcccag cacctgaact cctgggggga 540 ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggacccct qaqqtcacqt gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 600 660 tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacaac ageacqtacc qtqtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 720 780 gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgcccccatc ccgggatgag 840 900 ctgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 960 gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg ctggactccg acggctcctt cttcctctac agcaagctca ccgtggacaa gagcaggtgg 1020 1080 cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 1113 cagaagagcc tctccctgtc tccgggtaaa tga
- <210> 4
- <211> 370
- <212> PRT
- <213> Artificial sequence
- <220>
- <223> Amino acid sequence of human CRB-15 with CD5 leader
- <400> 4

Met Pro Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu Leu Gly

Met Leu Val Ala Ser Cys Leu Gly Asn Trp Val Asn Val Ile Ser Asp 20 25 30

Leu Lys Lys Ile Glu Asp Leu Ile Gln Ser Met His Ile Asp Ala Thr 35 40 45

Leu Tyr Thr Glu Ser Asp Val His Pro Ser Cys Lys Val Thr Ala Met 50 55 60

Lys Cys Phe Leu Leu Glu Leu Gln Val Ile Ser Leu Glu Ser Gly Asp 65 70 75 80

Ala Ser Ile His Asp Thr Val Glu Asn Leu Ile Ile Leu Ala Asn Asn 85 90 95

Ser Leu Ser Ser Asn Gly Asn Val Thr Glu Ser Gly Cys Lys Glu Cys 100 105 110

Glu Glu Leu Glu Glu Lys Asn Ile Lys Glu Phe Leu Asp Ser Phe Val 115 120 125

His Ile Val Asp Met Phe Ile Asn Thr Ser Asp Pro Lys Ser Ala Asp 130 135 140

Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly 145 150 155 160

Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile 165 170 175

Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser His Glu 180 185 190

Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu Val His 195 200 205

Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg 210 215 220

Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys 225 230 235 240 Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu 245 250 Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr 260 Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp 295 Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val 305 310 315 Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp 325 330 Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His 340 345 Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro 355 360 Gly Lys 370 <210> 5 <211> 371 <212> PRT <213> Artificial sequence

<220>

<223> Amino acid sequence of murine IL-15/Fc (human mutated IL-15, murine IgG2A) with CD5 leader

<400> 5

Met Pro Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu Leu Gly 1 5 10 15

Met Leu Val Ala Ser Cys Leu Gly Asn Trp Val Asn Val Ile Ser Asp 20 25 30

Leu	Lys	Lys 35	Ile	Glu	Asp	Leu	Ile 40	Gln	Ser	Met	His	Ile 45	Asp	Ala	Thr
Leu	Tyr 50	Thr	Glu	Ser	Asp	Val 55	His	Pro	Ser	Cys	Lys 60	Val	Thr	Ala	Met
Lys 65	Cys	Phe	Leu	Leu	Glu 70	Leu	Gln	Val	Ile	Ser 75	Leu	Glu	Ser	Gly	Asp 80
Ala	Ser	Ile	His	Asp 85	Thr	Val	Glu	Asn	Leu 90	Ile	Ile	Leu	Ala	Asn 95	Asn
Ser	Leu	Ser	Ser 100	Asn	Gly	Asn	Val	Thr 105	Glu	Ser	Gly	Cys	Lys 110	Glu	Cys
Glu	Glu	Leu 115	Glu	Glu	Lys	Asn	Ile 120	Lys	Glu	Phe	Leu	Asp 125	Ser	Phe	Val
His	Ile 130	Val	Asp	Met	Phe	Ile 135	Asn	Thr	Ser	Asp	Pro 140	Arg	Gly	Pro	Thr
Ile 145	Lys	Pro	Cys	Pro	Pro 150	Суѕ	Lys	Cys	Pro	Ala 155	Pro	Asn	Leu	Leu	Gly 160
Gly	Pro	Ser	Val	Phe 165	Ile	Phe	Pro	Pro	Lys 170	Ile	Lys	Asp	Val	Leu 175	Met
Ile	Ser	Leu	Ser 180	Pro	Ile	Val	Thr	Cys 185	Val	Val	Val	Asp	Val 190	Ser	Glu
Asp	Asp	Pro 195	Asp	Val	Gln	Ile	Ser 200	Trp	Phe	Val	Asn	Asn 205	Val	Glu	Val
His	Thr 210	Ala	Gln	Thr	Gln	Thr 215	His	Arg	Glu	Asp	Tyr 220	Asn	Ser	Thr	Leu
Arg 225	Val	Val	Ser	Ala	Leu 230	Pro	Ile	Gln	His	Gln 235	Asp	Trp	Met	Ser	Gly 240
			Lys	245					250					255	
Glu	Arg	Thr	Ile	Ser	Lys	Pro	Lys	Gly	Ser	Val	Arg	Ala	Pro	Gln	Val

260 265 270

Tyr Val Leu Pro Pro Pro Glu Glu Glu Met Thr Lys Lys Gln Val Thr 275 280 285

Leu Thr Cys Met Val Thr Asp Phe Met Pro Glu Asp Ile Tyr Val Glu 290 295 300

Trp Thr Asn Asn Gly Lys Thr Glu Leu Asn Tyr Lys Asn Thr Glu Pro 305 310 315 320

Val Leu Asp Ser Asp Gly Ser Tyr Phe Met Tyr Ser Lys Leu Arg Val 325 330 335

Glu Lys Lys Asn Trp Val Glu Arg Asn Ser Tyr Ser Cys Ser Val Val 340 345 350

His Glu Gly Leu His Asn His His Thr Thr Lys Ser Phe Ser Arg Thr 355 360 365

Pro Gly Lys 370